

Title (en)

METHOD OF FIRING GLASS-MELTING FURNACE.

Title (de)

VERFAHREN ZUM HEIZEN EINES GLASSCHMELZOFENS.

Title (fr)

PROCEDE POUR CHAUFFER UN FOUR DE VERRERIE.

Publication

EP 0474661 B1 19941130

Application

EP 90907268 A 19900509

Priority

- GB 8910766 A 19890510
- GB 9000716 W 19900509

Abstract (en)

[origin: WO9013522A1] A method of feeding and firing a glass-melting furnace comprises the step of passing glass batch, combustion air and burning fuel vertically down a cylindrical tower (1) and through the crown (2) of the furnace. A feed stream of glass batch and combustion air is surrounded by burning fuel in the tower (1) and the flame of burning fuel strikes the surface (3) of molten glass in the furnace. Infra-sound waves are applied to the glass batch, combustion air and burning fuel as these are fed downwardly through the tower (1) and the crown (2) of the furnace to enhance transfer of heat from the burning fuel to the glass batch so that the batch in the feed stream is heated to melting temperature and molten glass droplets fall upon the surface (3) of molten glass in the furnace.

IPC 1-7

C03B 3/00; **C03B 3/02**; **C03B 5/235**

IPC 8 full level

C03B 3/02 (2006.01); **C03B 5/235** (2006.01)

CPC (source: EP US)

C03B 3/026 (2013.01 - EP US); **C03B 5/235** (2013.01 - EP US)

Cited by

US6472134B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 9013522 A1 19901115; AT E114613 T1 19941215; DE 69014627 D1 19950112; DE 69014627 T2 19950504; DK 0474661 T3 19950130; EP 0474661 A1 19920318; EP 0474661 B1 19941130; ES 2064732 T3 19950201; GB 2234505 A 19910206; GB 8910766 D0 19890628; GB 9010333 D0 19900627; US 5236484 A 19930817

DOCDB simple family (application)

GB 9000716 W 19900509; AT 90907268 T 19900509; DE 69014627 T 19900509; DK 90907268 T 19900509; EP 90907268 A 19900509; ES 90907268 T 19900509; GB 8910766 A 19890510; GB 9010333 A 19900509; US 79335892 A 19920110